

Application No.: 10/823,404

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**Amendments to the Claims:**  
Please cancel claims 1-43.

Please add claims 44-54.

The Claim Listing below will replace all prior versions of the claims in the application:

**Claim Listing:**

1-43. (Canceled)

44. (New) A copper composition, substantially free of other metals, characterized by one or more spots of magnetic attraction to a neodymium iron boron magnet on the surface of the composition at room temperature.

45. (New) The copper composition of Claim 44 wherein the spots of magnetism are observed in a sinusoidal pattern.

46. (New) The copper composition according to Claim 44 wherein the magnetic attraction decreases over time.

47. (New) The copper composition of Claim 44 wherein the spots of magnetic attraction are present on the radial surface of the composition.

48. (New) The copper composition of Claim 47 wherein the axial surface of the composition is substantially free of spots of magnetic attraction.

49. (New) A copper composition, substantially free of other metals, characterized by point attraction to iron filings at or near 77K.

50. (New) A copper composition characterized by an axially to radially anisotropic scan by an MFM.

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51. (New) A copper composition manufactured by exposing a starting composition to an iterative cyclic process in the presence of a carbon source wherein the starting composition does not attract a magnet, the copper composition attract a magnet and there is substantially no difference in Gauss readings between the starting composition and the copper composition.
52. (New) A copper composition characterized by a magnetic region exhibiting magnetic attraction to a neodymium iron boron magnet and/or iron filings and wherein said composition exhibits a Gauss reading of essentially zero.
53. (New) A copper composition characterized by a magnetic region exhibiting magnetic attraction independent of pole and wherein said region attracts a ferromagnetic material.
54. (New) A copper composition characterized by a magnetic region exhibiting magnetic attraction independent of pole and wherein said region exhibits a Gauss reading of essentially zero.